SEQUENCE LISTING

<110> AVIDIS S	A								
<120> MULTIMER	IC COMPLE	XES OF	ANTIG	ENS AN	JULGA O	/ANTS			
<130> 620-359									
<140> 10/523,5 <141> 2006-02-									
<150> EP 02292 <151> 2002-08-									
<160> 20									
<170> PatentIn Ver. 2.1									
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Lys Leu Ser Le 35	u Glu Ile		n Leu 0	Glu L	eu Gln	Arg As	sp Ser	Ala	
Arg Gln Ser Th 50	r Leu Asp	Lys Gl 55	u Leu						
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Gln Cys Leu Al	_	Tyr Gl	u Val 25	Lys M	et Ala	_	lu Val 30	Туз	
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Glu Val Pro Lys Asp Cys Glu His Val Phe Ala Gly Lys Lys Leu Met
Gln Cys Leu Pro Asn Ser Asn Asp Val Lys Met Ala Leu Glu Val Tyr
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                                 25
Lys Leu Thr Leu Glu Ile Lys Gln Leu Gln Leu Gln Ile Asp Lys Ala
Lys His Val Asp Arg Glu Leu
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<400> 4
Glu Ala Ser Glu Asp Leu Lys Pro Ala Leu Thr Gly Asn Lys Thr Met
Gln Tyr Val Pro Asn Ser His Asp Val Lys Met Ala Leu Glu Ile Tyr
                                 25
Lys Leu Thr Leu Glu Val Glu Leu Leu Gln Leu Gln Ile Gln Lys Glu
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                             40
Lys His Thr Glu Ala His
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<212> PRT
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<400> 5
Glu Tyr Pro Glu Gly Cys Glu Gln Val Val Thr Gly Arg Lys Leu Leu
                  5
                                     10
Gln Cys Leu Ser Arg Pro Glu Glu Val Lys Leu Ala Leu Glu Val Tyr
Lys Leu Ser Leu Glu Ile Glu Ile Leu Gln Thr Asn Lys Leu Lys Lys
         35
Glu Ala Phe Leu Leu Arg Glu Arg Glu Lys Asn Val Thr Cys Asp Phe
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60

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Asn Pro Glu
 65
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<213> Sus scrofa
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Glu Tyr Pro Glu Asp Cys Glu Gln Val His Glu Gly Lys Lys Leu Met
Glu Cys Leu Pro Thr Leu Glu Glu Ile Lys Leu Ala Leu Ala Leu Tyr
             20
                                 25
Lys Leu Ser Leu Glu Thr Asn Leu Leu Glu Leu Gln Ile Asp Lys Glu
                             40
Lys Lys Ala Lys Ala Lys Tyr Ser Thr
                         55
<210> 7
<211> 56
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<213> Cavia porcellus
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Glu Val Pro Glu Glu Cys Lys Gln Val Ala Ala Gly Arg Lys Leu Leu
Glu Cys Leu Pro Asn Pro Ser Asp Val Lys Met Ala Leu Glu Val Tyr
                                 25
Lys Leu Ser Leu Glu Ile Glu Gln Leu Glu Lys Glu Lys Tyr Val Lys
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Ile Gln Glu Lys Phe Ser Lys Glu
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<210> 8
<211> 59
<212> PRT
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Glu Val Leu Glu Asp Cys Arg Ile Val Ser Arg Gly Ala Gln Leu Leu
His Cys Leu Ser Ser Pro Glu Asp Val His Arg Ala Leu Lys Val Tyr
Lys Leu Phe Leu Glu Ile Glu Arg Leu Glu His Gln Lys Glu Lys Trp
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<210> 9

<211> 52

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Variant of the C4bp core protein

<400> 9

Cys Glu Gln Val Leu Thr Gly Lys Arg Leu Met Gln Cys Leu Pro Asn 1 5 10 15

Pro Glu Asp Val Lys Met Ala Leu Glu Val Tyr Lys Leu Ser Leu Glu
20 25 30

Ile Glu Gln Leu Glu Leu Gln Arg Asp Ser Ala Arg Gln Ser Thr Leu
35 40 45

Asp Lys Glu Leu 50

<210> 10

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Variant of the C4bp core protein

<400> 10

Glu Thr Pro Glu Gly Cys Glu Gln Val Leu Thr Gly Lys Arg Leu Met
1 5 10 15

Gln Cys Leu Pro Asn Pro Glu Asp Val Lys Met Ala Leu Glu Val Tyr

Lys Leu Ser Leu Glu Ile Lys Gln Leu Glu Leu Gln Arg Asp Ser Ala 35 40 45

Arg Gln Ser Thr Leu Asp Lys Glu Leu 50 55

<210> 11

<211> 52

<212> PRT

<213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence: Variant of the
      C4bp core protein
Cys Glu Gln Val Leu Thr Gly Lys Arg Leu Met Gln Cys Leu Pro Asn
                                     10
Pro Glu Asp Val Lys Met Ala Leu Glu Val Tyr Lys Leu Ser Leu Glu
Ile Lys Gln Leu Glu Leu Gln Arg Asp Ser Ala Arg Gln Ser Thr Leu
                             40
Asp Lys Glu Leu
     50
<210> 12
<211> 57
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<213> Artificial Sequence
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<223> Description of Artificial Sequence: Variant of the
      C4bp core protein
<400> 12
Glu Thr Pro Glu Gly Cys Glu Gln Val Leu Thr Gly Lys Arg Leu Met
                  5
Gln Cys Leu Pro Asn Pro Glu Asp Val Lys Met Ala Leu Glu Ile Tyr
Lys Leu Ser Leu Glu Ile Glu Gln Leu Glu Leu Gln Arg Asp Ser Ala
                             40
Arg Gln Ser Thr Leu Asp Lys Glu Leu
     50
                         55
<210> 13
<211> 57
<212> PRT
<213> Artificial Sequence
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<223> Description of Artificial Sequence: Variant of the
      C4bp core protein
<400> 13
Glu Thr Pro Glu Gly Cys Glu Gln Val Leu Thr Gly Lys Arg Leu Met
Gln Cys Leu Pro Asn Pro Glu Asp Val Lys Met Ala Leu Glu Ile Tyr
             20
                                 25
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Lys Leu Ser Leu Glu Ile Lys Gln Leu Glu Leu Gln Arg Asp Ser Ala 35 40 45

Arg Gln Ser Thr Leu Asp Lys Glu Leu 50 55

<210> 14

<211> 50

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Variant of the C4bp core protein

<400> 14

Glu Gly Cys Glu Gln Ala Leu Thr Gly Lys Arg Leu Met Gln Cys Leu

1 10 15

Pro Asn Pro Glu Asp Val Lys Met Ala Leu Glu Ile Tyr Lys Leu Ser 20 25 30

Leu Glu Ile Lys Gln Leu Glu Leu Gln Arg Asp Ser Ala Arg Gln Ser 35 40 45

Thr Leu 50

<210> 15

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Variant of the C4bp core protein

<400> 15

Glu Thr Pro Glu Gly Ser Glu Gln Val Leu Thr Gly Lys Arg Leu Met
1 5 10 15

Gln Ser Leu Pro Asn Pro Glu Asp Val Lys Met Ala Leu Glu Val Tyr
20 25 30

Lys Leu Ser Leu Glu Ile Lys Gln Leu Glu Leu Gln Arg Asp Ser Ala 35 40 45

Arg Gln Ser Thr Leu Asp Lys Glu Leu 50 55

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<211> 52
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Variant of the
      C4bp core protein
<400> 16
Glu Gly Ser Glu Gln Ala Leu Thr Gly Lys Arg Leu Met Gln Ser Leu
Pro Asn Pro Glu Asp Val Lys Met Ala Leu Glu Ile Tyr Lys Leu Ser
Leu Glu Ile Glu Gln Leu Glu Leu Gln Arg Asp Ser Ala Arg Gln Ser
Thr Leu Asp Lys
     50
<210> 17
<211> 370
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Fusion Protein
Met Lys Phe Leu Pro Leu Phe Asp Arg Val Leu Val Glu Arg Ser Ala
                                     10
Gly Ser Val Asp Ala Glu Arg Leu Lys His Leu Ile Val Thr Pro Ser
                                 25
Gly Ser Gly Glu Gln Asn Met Ile Gly Met Thr Pro Thr Val Ile Ala
         35
Val His Tyr Leu Asp Glu Thr Glu Gln Trp Glu Lys Phe Gly Leu Glu
Lys Arg Gln Gly Ala Leu Glu Leu Ile Lys Lys Gly Tyr Thr Gln Gln
                                          75
Leu Ala Phe Arg Gln Pro Ser Ser Ala Phe Ala Ala Phe Val Lys Arg
Ala Pro Ser Thr Trp Leu Thr Ala Tyr Val Val Lys Val Phe Ser Leu
                                105
Ala Val Asn Leu Ile Ala Ile Asp Ser Gln Val Leu Cys Gly Ala Val
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Lys Trp Leu Ile Leu Glu Lys Gln Lys Pro Asp Gly Val Phe Gln Glu

140

135

115

130

Asp Ala Pro Val Ile His Gln Glu Met Ile Gly Gly Leu Arg Asn Asn 145 150 155 160

Asn Glu Lys Asp Met Ala Leu Thr Ala Phe Val Leu Ile Ser Leu Gln 165 170 175

Glu Ala Arg Asp Ile Cys Glu Glu Gln Val Asn Ser Leu Pro Gly Ser 180 185 190

Ile Thr Lys Ala Gly Asp Phe Leu Glu Ala Asn Tyr Met Asn Leu Gln
195 200 205

Arg Ser Tyr Thr Val Ala Ile Ala Gly Tyr Ala Leu Ala Gln Met Gly 210 215 220

Arg Leu Lys Gly Pro Leu Leu Asn Lys Phe Leu Thr Thr Ala Lys Asp 225 230 235 240

Lys Asn Arg Trp Glu Asp Pro Gly Lys Gln Leu Tyr Asn Val Glu Ala 245 250 255

Thr Ser Tyr Ala Leu Leu Ala Leu Leu Gln Leu Lys Asp Phe Asp Phe 260 265 270

Val Pro Pro Val Val Arg Trp Leu Asn Glu Gln Arg Tyr Tyr Gly Gly 275 280 285

Gly Tyr Gly Ser Thr Gln Ala Thr Phe Met Val Phe Gln Ala Leu Ala 290 295 300

Gln Tyr Gln Lys Asp Ala Pro Gly Ser Glu Thr Pro Glu Gly Cys Glu 305 310 315 320

Gln Val Leu Thr Gly Lys Arg Leu Met Gln Cys Leu Pro Asn Pro Glu 325 330 335

Asp Val Lys Met Ala Leu Glu Val Tyr Lys Leu Ser Leu Glu Ile Glu 340 345 350

Gln Leu Glu Leu Gln Arg Asp Ser Ala Arg Gln Ser Thr Leu Asp Lys 355 360 365

Glu Leu 370

<210> 18

<211> 387

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Fusion Protein

<400> 18

Met Lys Phe Leu Pro Leu Phe Asp Arg Val Leu Val Glu Arg Ser Ala 1 5 10 15

Gly Ser Val Asp Ala Glu Arg Leu Lys His Leu Ile Val Thr Pro Ser 20 25 30

Gly Ser Gly Glu Gln Asn Met Ile Gly Met Thr Pro Thr Val Ile Ala 35 40 45

Val His Tyr Leu Asp Glu Thr Glu Gln Trp Glu Lys Phe Gly Leu Glu 50 55 60

Lys Arg Gln Gly Ala Leu Glu Leu Ile Lys Lys Gly Tyr Thr Gln Gln 65 70 75 80

Leu Ala Phe Arg Gln Pro Ser Ser Ala Phe Ala Ala Phe Val Lys Arg 85 90 95

Ala Pro Ser Thr Trp Leu Thr Ala Tyr Val Val Lys Val Phe Ser Leu
100 105 110

Ala Val Asn Leu Ile Ala Ile Asp Ser Gln Val Leu Cys Gly Ala Val
115 120 125

Lys Trp Leu Ile Leu Glu Lys Gln Lys Pro Asp Gly Val Phe Gln Glu 130 135 140

Asp Ala Pro Val Ile His Gln Glu Met Ile Gly Gly Leu Arg Asn Asn 145 150 155 160

Asn Glu Lys Asp Met Ala Leu Thr Ala Phe Val Leu Ile Ser Leu Gln 165 170 175

Glu Ala Lys Asp Ile Cys Glu Glu Gln Val Asn Ser Leu Pro Gly Ser 180 185 190

Ile Thr Lys Ala Gly Asp Phe Leu Glu Ala Asn Tyr Met Asn Leu Gln
195 200 205

Arg Ser Tyr Thr Val Ala Ile Ala Gly Tyr Ala Leu Ala Gln Met Gly 210 215 220

Arg Leu Lys Gly Pro Leu Leu Asn Lys Phe Leu Thr Thr Ala Lys Asp 225 230 235 240

Lys Asn Arg Trp Glu Asp Pro Gly Lys Gln Leu Tyr Asn Val Glu Ala 245 250 255

Thr Ser Tyr Ala Leu Leu Ala Leu Leu Gln Leu Lys Asp Phe Asp Phe 260 265 270

Val Pro Pro Val Val Arg Trp Leu Asn Glu Gln Arg Tyr Tyr Gly Gly
275 280 285

Gly Tyr Gly Ser Thr Gln Ala Thr Phe Met Val Phe Gln Ala Leu Ala 290 295 300 Gln Tyr Gln Lys Asp Ala Pro Gly Ser Gly Lys Val Leu Gln Ala Thr Val Val Ala Val Gly Ser Gly Ser Lys Gly Lys Gly Glu Ile Gln 330 Pro Val Ser Val Lys Val Gly Asp Lys Val Leu Leu Pro Glu Tyr Gly 345 340 Gly Thr Lys Val Val Leu Asp Asp Lys Asp Tyr Phe Leu Phe Arg Asp 360 Gly Asp Ile Leu Gly Lys Tyr Val Asp Glu Gln Lys Leu Ile Ser Glu 370 375 Glu Asp Leu 385 <210> 19 <211> 388 <212> PRT <213> Artificial Sequence <223> Description of Artificial Sequence: Fusion Protein

<400> 19
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10 15

Gly Glu Thr Val Thr Val Asp Ala Glu Arg Leu Lys His Leu Ile Val

Thr Pro Ser Gly Ser Gly Glu Gln Asn Met Ile Gly Met Thr Pro Thr
35 40 45

Val Ile Ala Val His Tyr Leu Asp Glu Thr Glu Gln Trp Glu Lys Phe
50 55 60

Gly Leu Glu Lys Arg Gln Gly Ala Leu Glu Leu Ile Lys Lys Gly Tyr 65 70 75 80

Thr Gln Gln Leu Ala Phe Arg Gln Pro Ser Ser Ala Phe Ala Ala Phe
85 90 95

Val Lys Arg Ala Pro Ser Thr Trp Leu Thr Ala Tyr Val Val Lys Val
100 105 110

Phe Ser Leu Ala Val Asn Leu Ile Ala Ile Asp Ser Gln Val Leu Cys 115 120 125

Gly Ala Val Lys Trp Leu Ile Leu Glu Lys Gln Lys Pro Asp Gly Val 130 135 140

Phe Gln Glu Asp Ala Pro Val Ile His Gln Glu Met Ile Gly Gly Leu 145 150 155 160 Arg Asn Asn Asn Glu Lys Asp Met Ala Leu Thr Ala Phe Val Leu Ile 165 170 175

Ser Leu Gln Glu Ala Lys Asp Ile Cys Glu Glu Gln Val Asn Ser Leu 180 185 190

Pro Gly Ser Ile Thr Lys Ala Gly Asp Phe Leu Glu Ala Asn Tyr Met 195 200 205

Asn Leu Gln Arg Ser Tyr Thr Val Ala Ile Ala Gly Tyr Ala Leu Ala 210 215 220

Gln Met Gly Arg Leu Lys Gly Pro Leu Leu Asn Lys Phe Leu Thr Thr 225 230 235 240

Ala Lys Asp Lys Asn Arg Trp Glu Asp Pro Gly Lys Gln Leu Tyr Asn 245 250 255

Val Glu Ala Thr Ser Tyr Ala Leu Leu Ala Leu Leu Gln Leu Lys Asp 260 265 270

Phe Asp Phe Val Pro Pro Val Val Arg Trp Leu Asn Glu Gln Arg Tyr
275 280 285

Tyr Gly Gly Gly Tyr Gly Ser Thr Gln Ala Thr Phe Met Val Phe Gln 290 295 300

Ala Leu Ala Gln Tyr Gln Lys Asp Ala Pro Gly Lys Val Leu Gln Ala 305 310 315 320

Thr Val Val Ala Val Gly Ser Gly Ser Lys Gly Lys Gly Gly Glu Ile 325 330 335

Gln Pro Val Ser Val Lys Val Gly Asp Lys Val Leu Leu Pro Glu Tyr 340 345 350

Gly Gly Thr Lys Val Val Leu Asp Asp Lys Asp Tyr Phe Leu Phe Arg 355 360 365

Asp Gly Asp Ile Leu Gly Lys Tyr Val Asp Glu Gln Lys Leu Ile Ser 370 375 380

Glu Glu Asp Leu 385

<210> 20

<211> 383

<212> PRT

<213> Artificial Sequence

<220×

<223> Description of Artificial Sequence: Fusion Protein

<400> 20

Met Lys Phe Leu Pro Leu Phe Asp Arg Val Leu Val Glu Arg Ser Ala 1 5 10 15 ے ۱۰ ہے

Gly Glu Thr Val Asp Ala Glu Arg Leu Lys His Leu Ile Val Thr Pro Ser Gly Ser Gly Glu Gln Asn Met Ile Gly Met Thr Pro Thr Val Ile Ala Val His Tyr Leu Asp Glu Thr Glu Gln Trp Glu Lys Phe Gly Leu Glu Lys Arg Gln Gly Ala Leu Glu Leu Ile Lys Lys Gly Tyr Thr Gln Gln Leu Ala Phe Arg Gln Pro Ser Ser Ala Phe Ala Ala Phe Val Lys 85 Arg Ala Pro Ser Thr Trp Leu Thr Ala Tyr Val Val Lys Val Phe Ser 105 Leu Ala Val Asn Leu Ile Ala Ile Asp Ser Gln Val Leu Cys Gly Ala 120 Val Lys Trp Leu Ile Leu Glu Lys Gln Lys Pro Asp Gly Val Phe Gln 130 135 Glu Asp Ala Pro Val Ile His Gln Glu Met Ile Gly Gly Leu Arg Asn 150 Asn Asn Glu Lys Asp Met Ala Leu Thr Ala Phe Val Leu Ile Ser Leu Gln Glu Ala Lys Asp Ile Cys Glu Glu Gln Val Asn Ser Leu Pro Gly Ser Ile Thr Lys Ala Gly Asp Phe Leu Glu Ala Asn Tyr Met Asn Leu 200 Gln Arg Ser Tyr Thr Val Ala Ile Ala Gly Tyr Ala Leu Ala Gln Met 210 Gly Arg Leu Lys Gly Pro Leu Leu Asn Lys Phe Leu Thr Thr Ala Lys 230 Asp Lys Asn Arg Trp Glu Asp Pro Gly Lys Gln Leu Tyr Asn Val Glu 250 Ala Thr Ser Tyr Ala Leu Leu Ala Leu Leu Gln Leu Lys Asp Phe Asp 260 Phe Val Pro Pro Val Val Arg Trp Leu Asn Glu Gln Arg Tyr Tyr Gly 280 Gly Gly Tyr Gly Ser Thr Gln Ala Thr Phe Met Val Phe Gln Ala Leu 290 295 Ala Gln Tyr Gln Lys Asp Ala Pro Leu Gln Ala Thr Val Val Ala Val 305 310 315 320

- Gly Ser Gly Ser Lys Gly Lys Gly Glu Ile Gln Pro Val Ser Val 325 330 335
- Lys Val Gly Asp Lys Val Leu Leu Pro Glu Tyr Gly Gly Thr Lys Val 340 345 350
- Val Leu Asp Asp Lys Asp Tyr Phe Leu Phe Arg Asp Gly Asp Ile Leu 355 360 365
- Gly Lys Tyr Val Asp Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu 370 375 380